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SOUND PERCORDING TrEELF.

Among all the marvels of mechanical in. gernity which are being daily brought to perfection, none are more intere t ng than tions which aim at the accomplishment of some task apparently requiring intellect, in add tion to more me h mind dexterity for its execution. It is diment to conce ve a mechanical operation which requires a greater exercise of intellect than that of ver batim reporting by means of short-hand, Yet even this art seems likely, before long to be a pplanted. For several years a French savan, M. L. Scott, has been engaged in experiments on the fixation of sound need a prepared tablet, in the same wa a photography fixes it simus imag +; and has met with considerable success in this new art, which he has named Pho pantography. At the last sitting of the French Academy of Sciences, a short communication was made by the discoverer in consequence of the publication of some experiments in the same direction made by other gentlemen. This communication was devoted chiefly to a discription of certain illustrations laid before the members. and would be unintelligible to the general reader without the diagrams, and a know. ledge of what had previously been accomplished by Mr. Scott. The subject, howe ver, being of immense importance, and likely now to attract great attention, and having ourselves watched its development for several years, as having had many opportunities of inspecting the phonegraphic representations of sound autographically recorded by Mr. Scott's instrument, a short account of what has already been done by this physicist will perhaps be considered of interes

tion was the artificial construction of an ear, by means of tubes and diaphragms, so as to imitate, as nearly as possible, the human ear, in its power of collecting sounds of every degree of intensity, and transmitting them to a delicate membrane placed at the extremity. After numerous essays an apparatus was constructed which possessed the above qualifications, the membrane was seen to vibrate visibly, and in a different manner, with each audible sound or note; and if a pen a or style were f. stened to the members of its point would hausting labors of our parliamentary re trace the wonderfully beautiful and com- porters. plicated curves and circles appertaining to the elements of sound. The next difficulty consisted in fin ling a sensitive surface upon which this wyle could mark the from Fort St. David to the assistance of imprint of its m-vements; for the vibrati- Calcutto, in the East Indies, stopped at ons of the aerial pen were so delicate that Mayapore, on the banks of the Ganges, if any appreciable force were required to where the enemy had a place of consideraeffect the transcription, the resistance ble strength, called Bongoe Fort, which it would at once stop all movement. This was necessary to accure before he procedifficulty was at last overcome by employ- eded any further in the expedition. The ing a strip of thin paper, upon which was action was begun oy a brisk car nenade deposited a film of lamp-black obtained from the squadron, which soon silenced from the smoke of burning bodies. This the cannon of the fort; but the garrison sensitive surface is carried along by clock. not offecing to surrender, and continuing, work | get y, in to t of the vibrating to discharge fire-arrows and small arms, of he latter shall not in in a me on the hand officers, that Colonel Clive should eno or, when the result is a series of lines deavor to take it by assault. For this purwritten on the paper, composed of the most complicated systems of curves, and forming a natural antegroph of the produ-

The problem which first required solu-

Of course it will be understo d that the above is intended more as a brief ontline intended doing just before daylight, under of the principle of Mr. Scott's instrument. one recently made, it is far more compli whole army—the necessary guards excepcated than would be imagined from this ted-and the detachment from the ships brief sketch; but the phonograph's product as the defaultment from the ships of the service required that he should show cold by it are marvellously perfect. Ever themselves as much as possible from the outward; some marks of his displacement searce of sound has an individuality of its own. The sounds of difference of the service required that he should show the fatiguest by had undergone in the prediction. This the Admiral did for some little time, but afterwards, at the intercest. duality of its own. The a unds of differ- coding day's service. tions of all degrees of amplitude.

pidity, and with the pitch of the wice exploits hel been entirely disregarded in greatly modelated in different parts, has the present instance, and therefore could a very striking appearance in its phone not help booking upon the person who had graph. Rapidly spoken parts have the the principal hand in this victory rather curves crowded together, whilst in others as in object of chastisement than of aptney are widely separated. The loud tones plause. The case was this:

compound sound, of which our spoken lanwork of transcription would be comparation buzzas, cried out: "The place is mine!" vely easy. This, however, is far from being the case. Not only does the impression vary with the tone of the voice, the tered by one person are written down by just as the handwriting of one person differs from another. This, however, is a difficulty which will be overcome by practice, and perhaps improved instrumental in this new language has so many difalent for the same articulated sound; the tracings not being either a true synthesis sign like writing, which has let us rememto use a mathematical expression, a funcnitch.

The fact of being able no make spoken sounds record themselves permanently on paper is of itself most singular and astonthing; but if it is ever developed, as the inventor says it shortly will be, to sufficient perfection to enable it to take down speeches which may be written off verbatim, it is difficult to imagine the importance of the discovery, whether it be in respect to the unimpeachable accuracy of the process, the intire absence of trouble and expense in reporting any articulate sounds, or the great saving of the time and the ex-

SINGULAR INTREPRETT.

In 1776, Admiral Watson, having sailed that the successiva movements it was determined, in a council of sea and pose, at five in the evening, the Admiral landed an officer, two midshipmen and the command of Captain King, to assist the Colonel in storming the fort, which he

An oration, delivered with varying ra- 40 is lasquasably necessary in all military tions led him to do it.

of the voice are shown by the written wa-ves rising to perhaps half an iuch or more one Straban, a common sailor belonging

the instrument very differently from the happen till he was near being supported and there is a decided impr vement manbarrels of powder.

> action, was soon before the Admiral, who I ngs in exceeds he ability to supply. notwith-tanding the ancess that hid at- It is worthy of noise in this connection cracy is not, therefore, destroyed. "The tended it, thought it necessary to show that nearly all mercantile transactions are wish is fath it to the thought" with those himself displeased with a measure in which this section based open each on delivery. European statesmen who either openly or the want of all military discipline so not. This brings a large am out of money into oriously appeared. He therefore angely c culation, and enables merchants to meet a prired into the desperate step which he their pecuniary obligations with prompt, over taem tike a "thunder cloud," and ex-

The fellow, after having made his bow, scratched his head, and with one hand twirling his hat upon the other replied. the fort, but I hope there was no harm in any other large city, and that the fall tred-

vented from smiling at the simplicity of our business career. Strahan's answer, and the whole company The Props of European Manarchy thicken by the American Inversetion. were execedingly diverted with his awk ward appearance and his language and lars of his mad exploit. Mr. Watson expatis'ed largely on the fatal consequences that might have attended his irregular conduct, and then with a severe rebuke, dismissed him -- but not before he had given the fellow some distant hints that at a proper opportunity he would be certainly punto find himself blamed where he expected praise, had no sooner gone from the Admiral's cab'n, than he muttered these on, I will never take another fort by myself as long as I live, by G-d!"

The novelty of the case, the success of dual details. In reality, especially the the Colonel had given directions that the which he had displayed pleaded strongly beginning of a crows? which he had displayed pleaded strongly with the Admiral in behalf of the off-sider, saying the source of the service required that he abould show him outwardly some marks of his displayed prevention, overtherming old the new which is a Europe, and report thereon for the next months and report thereon for the next prevention, overtherming old the new which ent musical instruments, for instance, are Ali was now quiet in the camp; and we sion of some officers, which intercession easily dist againshed from one another, and on beard the ships, we call ay at their another Admiral himself prompted them to from the human voice. The latter, more chors but a small distance from the shore, make, he most readily pardoned him. And over, gives different traces according to had entertained thoughts of making use of it is not improbable, that had Strahan been its character—the aweet soft voice of a that interval to refresh ourselves with an properly qualified for the office of beatfemale, especially when singing, being hour or two of sleep; but suldenly a load swain, he might, on some other pretence, characterized by great beauty and harmo and universal exclamation was heard from before the expedition had ended, have been my in the conves impressed on the paper; the shore, and seen after an account was promoted to that station in one of his main those produced by the haraber voice of boay it to the Almost that the first had jesty's ships. But unfortunately for this a man, the curves are larger and more rug | been taken by storm. This was a joyful brave fellow, the whole tener of his conged looking; whilst in a shrick or a shout, piece of news, and the more so as it was duct, both before and after the storming or is the barsh, discordant sounds of ins. Justs unexpected, but when the particular of the fort, was so very irregular as to transuts, the waves are irregular, one proposition astances that astered in this success render it impossible for the Admiral to adqual, and broken up into secondary visca were related, our exultation was greatly vance him from his old station to any higabated, because we found that the ra'e her rank, how strongly soever his inclina-

in height, whilst the low tones are not to the Kent, having just been served with raging. The grain trade, always heavy and extreme poverty, suffering and discormore than the eighth of an inch hight; the a quanty of groy (arrack mixed with wat during the season of navigation, has this tent will become the inflammable elements modulations of the voice are thus shown (er), had his spirits too much elated to year been altogether unprecented in ex- of revolution, which will only require the very beautifully by the varying height of think of taking any rest: he therefore stra tont; and, although prices have ranged match of the political incendiary to set what may be called the letters of sound, yed by himself towards the fort, and im- below the average, yet the receipts and them in a blaze. Thus, then, the problem of the graphic perceptibly got under the walls. Boing shipments reach a far greater aggregate fixation of sound may be considered as advanced thus far without interruption, he than they ever have before. This has pro- well as England, and we would not be au accomplished; but now a new difficulty took it into his head to scale at a breach duced a corresponding activity in our ext prised if, in the course of next spring, fiarises -- that of translating these ever vary that had been made by the cannons of the tensive lake marine; freights have ruled marcial, commercial and manufacturing ing curves back again into ordinary lan- ships, and having luckily gotten up on the high, and many hundreds of seamen havgrage. If each word or syllable, or even bastion, he there discovered acveral Mor thus had steady employment at rennuer men sitting upon the platform, at whom ative wages; all the ship yards have been develope their virulence. Certain it is, if nage is built up, were invariably repre- he flourished his cutiase and fired his pis- overrun with orders, and, in addition, the war should continue till the spring of s med by the same system of curves, the tol, and then, having given three had scores of laborers have "ound work in the warehouses and elevators skirting the real! Europe will be completely revolution. The Moorish soldiers immediately at-ver. The railroads, although exhibiting used. They are sending expeditions to tacked him, and he defended himself with a marked decrease in their earnings for a Mexico, and more troops and ships-of-war incredible resolution, but in the encounter month or two past, are, on the winds, do have been desputched to Canada. But therapidity or loadness of utterance, but it had the misfortune to have the blade of his ing much butter than was anticipated. as operations will not help England and has been found that the same words no cutlass cut in two about a foot from the The grocery and dry goods jobbers are. France, but, on the contrary, by the exhilt. This mischance, however, did not as a class, driving a brisk fall business, penditure of m ney, will hasten the denway they are when sy ken by another; by two or three other sailors who had ac lested in other brancaes of the waslesale while the sympathy of the downtroddes cidentally straggled to the same part of brade. Retailers are all busy, and, with masses fir democracy struggling to vindithe fort on which the other had mounted their decreased expens a and light stacks, cate itself against donestic rebellion and They, hearing Strahan's cries, immedia seem to be for the most part satisfied, und the amedinations of the aristocracies and tely scaled the breach likewise, and echo der the circumstances, with their present in marchies of Europe will shape itself into arrangements; even now we hear that Mr. ing the triumphant sound, roused the prospect. Several of our clothing and decid. Scott is attaining some facility in reading whole army, who taking the alarm, fell shoe firms are making up heavy contracts. But, may British statesmen and their off these natural stenographs. The on pell mell, without order and without for the army, and a number of saddlery organs, democracy is already dead on the difficuties however, in the way of discipline, following the example of the houses and wagon builders are similarly American continent, and there no resurfluent transcription into written lan- sailors. This attack, although made in engaged. A large increase to the banking acction for it. The will soon find out that guage are very great, as the student such confusion, was followed with no ill capital of Chicago has recently been monga democracy may have slepe, it was consequence but the death of the worthy made, as well as to other branches o not and is not dead. On the coutrary, it ferent forms presented to him as the equiv- Captain Dougal Campbell, who was unfor- him ness, by the removal here from his awakened like a grant refreshed with tunately killed by a musket ball from one Gincinnati, St. Lenis, and Lenisville new wine, and will become as terrible to of our own pieces in the general confusion, of some half-discen or more heavy kings and total mobility as was France in of the words, nor a purely conventional Captain Coot commanded the fort for that concerns. For it is a fact beyond all 132 and the years which followed. At night, and at daylight the fort soluted the question that an extensive emigration from that one "the comblic, one and indivisiber, no phonominal value, but is merely. Admiral. It was never exactly known the South has been tending towards this inle," nod its own against all the arms a what number of Moors there were in the city for months past. This is proven by a good, and came trumphast out of the tion of the tones, the intensity and the fort when our people first entered. We the scarcity of dwellings, it being now as a suggletook in the fort eighteen cannons, from most an impossibility to find a tenement of the Northern States are greater than twenty-four p unders downwards, and forty that Is at all desirable for rent; and one were times of France, and the "dividing of the leading agents informs us that the ocean" is to the United States a barrier

> ness. The real estate brokers report more "Mr. Strahan, what is this you have been sales of property within the post sixty American democ any, so far from being dedays than have transpired for two years alroyed by the insurrection, needed some previous; and those, also, have been printed accasion oke this to bring out its strength, cipally for cash. Taking all these facts it is the modful preparation for its war into consideration, there is no doubt that with kings. "Why, to be sure sir, 't was I who took | Chicago is suffering less from the war than which has opened so fair and bright, is The Admiral, with difficulty, was pre- destined to carry her fow aid on a prespec-

By the news from Europe on real vmanner in recounting the several particowill perceive that the English funds had drained of its specie, owing to a deficient barvest and the purchase of breadstuffs ab road: that it had increased its rate of decount, creating thereby a great outery in the commercial world, and that the price of bread had advanced in Pane, protu- og ished for his temerity. Strahan, amazed a bad impression, and adding to the des pundency of the Paris Bonrae. These menetary and social derangements in France, and the stagnation in England, which is words:-"If I am flogged for this ere actis the foremater of similar phonon on in that country, are explained in the London Times by "the American crisis which has paraly zed everything."

> Now these developments are but " h revolution, overtaining old the new which seem already tottering to their fall,

The war has scarcely yet began It is only six in onthe since the President issued his proclamation for viduateers. What is the effect already upon England? In is the effect already upon England? In Rencessatives of the United States of Amsterial Interpretation of it, we have imported as 1-t-start be, and he harder is authorized to take the from Great Britain that her trade with us thus fallon off one hundred multions of dollars, while her necessities have coved there to take our surplus breadstuffs and exist, and will continue at least for the ensures as shall to hun seem best to take industrial interpretation of the industrial interpretation of will be drained of her specie, to an extent that will distance all her financial affairs; her securities will go down rap dly, her cotton bouns will be stopped from the want of the raw material from the insurgent States, the expected supply from other countries and depression and commercial standard, so noticeable at this time throughout the entire country, our own city is showing evidences of returning prosperity which are truly encoucutton looms will bu stopped from the want

Three observations apply to France as bankruptcy would become general in both countries, and social disorders begin to the following year, England, France and nement of their national bankrupter,

the population and resources Strahan, the hero of this adventurous amdications he daily receives for dewel against successful invasion which the r'reach republic did not possess. Demosocietly sympathias with the Southern reperhan. Fue American republic hange cates like their hatred and their fears.

> Wails the monarchies of Europe are being rained by the American rebellion, he United States will enjoy undiminished prespectity. The people will dispense with mannes, and and import little or nothing. for gold mad us by England and France for on wheat, and corn, and flour, will to the asis of an internal trade between to twenty- live Northern States and their warle wenty-three millions of population. this to de will be stimulated by the artites needed for the army and navy, and has the specie will be kept in the country, may will circulate fracily, and there will se aband out employment for als. Hence aviil effect w I be fait from the expendimes for the army and navy .- N. Y. Her-

> Joint Resolution authorizing the Appointment of Examiners to examine a Steam Floating Batte-ry at clouden, New Jursey.

Resolvered by the Senate and House of Representatives of the United States of Ame-rica in Congress assembled. That the Score -the premeritor examiners to examine the from steam buttery

A Resolution relative to the Exhibition of the Industry of all Nations to be holden in Londs the year eighteen bundred and sixty two.

Resolved by the Senate and House of Representations of the United States of Amn-

A Re-o'ution requesting the President of the United States to recommend a Day of Public Humiliation Fasting, and Prayer.

Resolved by the Senate and House of

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